Investigator	Institution	Title	Species (1)	Nature of test	Number of animals involved
Adkinson, N. Franklin, Jr., M.D. Eggleston, Peyton, M.D. Tonascia, James, Ph.D.	Johns Hopkins School of Medicine Medicine/Clinical Immunology 5501 Hopkins Bayview Circle Baltimore, MD 21224	Irreversible Airway Disease in Young Adults with Moderate to Severe Childhood Asthma	None used	--	--
Anderson, Steven E., Ph.D. Cala, Peter M., Ph.D.	University of California, Davis Dept. of Human Physiology One Shields Avenue Davis, CA 95616-8644	Acute Estrogen Limits Na Uptake in Ischemic Myocardium	Rat	histological and pharmacological	105/year
Antal, Sara, Ph.D.	FJC National Research Institute for Radiobiology and Radiohygiene Department of Tumor Biology Anna u. 5. Budapest, 1221, Hungary	Combined Effect of Smoking and Radiation on Carcinogenesis in Developing Mouse Embryo	Mouse	behavioral, histological, carcinogensis, embryogensis and biochemical	2,600
Balazy, Michael, Ph.D.	New York Medical College Department of Pharmacology 100 Grassland Road Valhalla, NY 10595	New Mechanisms of Cigarette Smoke-Induced Lipid Peroxidation	None used	--	--
Ballinger, Scott W., Ph.D.	University of Texas Medical Branch at Galveston Internal Medicine/Cardiology 301 University Boulevard, 9.138 MRB Galveston, TX 7555-1064	The Effects of Environmental Tobacco Smoke (ETS) on Mitochondrial Damage, Function, and Atherosclerotic Lesion Development	Mouse	biochemical, pharmacological and histological	300/year
Bleau, Gilles, Ph.D.	Hospital Saint-Luc du CHUM Obstetrics and Gynecology 264, boul. Rene-Levesque Est Montreal, Quebec Canada H2X 1P1	Sperm DNA Integrity in Infertile Men Who Smoke	None used	--	--
Burkman, Lani J., Ph.D.	State University of New York at Buffalo Department of Gynecology and Obstetrics WNY Fertility Laboratory, Inc. Andrology 219 Bryant Street Buffalo, NY 14222	Three Sperm Function Assays and Their Utility as an in vitro Model of Nicotine/Cotinine Effects on Human Reproduction	None used	--	--
Castagnoli, Neal, Ph.D.	Virginia Polytechnic Institute and State University Department of Chemistry - 0212 107 Davidson Hall Blacksburg, VA 24061	Studies on Tobacco Derived Inhibitors of Monoamine Oxidase	Mouse, Rat	biochemical, pharmacology	mice 300/year, rats 100/year
Cooke, John P., M.D., Ph.D.	Stanford University School of Medicine	Nicotine Enhances Vessel Formation	Mouse	pharmacological	125
Domino, Edward F., M.D.	University of Michigan Department of Pharmacology A220E MSRBIII Ann Arbor, MI 48109-0632	Phenotyping/Genotyping of CYP2A6 and Nicotine/Tobacco Smoking	None used	--	--
Dottavio, Diane, Ph.D.	Endovasc Ltd., Inc. 15001 Walden Road, Suite 108 Montgomery, Texas 77356	Development and Evaluation of Therapeutic Delivery Systems for Administration of Nicotine (NRA) in Vascular Diseases	Pig and rabbit	pharmacology and biochemical	pigs 9, rabbits 15
Ellison, Gaylord D., Ph.D.	University of California, Los Angeles Psychology Department Franz Hal, Box 951563 Los Angeles, CA 90095-1563	Neurodegenerative Studies Indicate that Nicotine Selectively Attacks Fasciculus Retroflexus in Brain: Further Studies	Rat	behavioral, pharmacological and histological	352/year
Flagan, Richard C., Ph.D.	California Institute of Technology Department of Chemical Engineering 1200 E. California Blvd., Mailstop 210-41 Pasadena, CA 91125	Establishing a Link Between Pollen Allergens and the Rising Incidence of Asthma	None used	--	--
Fox, Alvin Ph.D. Fox, Karen Feigley, Gene Larsson, Lennart	University of South Carolina Department of Microbiology and Immunology 6439 Garners Ferry Road Columbia, SC 29208	Source of Chemical Markers for Bacteria in Indoor Air	None used	--	--
Gordon, Terry, Ph.D.	New York University School of Medicine Department of Environmental Medicine 57 Old Forge Road Tuxedo, NY 10987	Genetic Susceptibility to Tobacco Smoke-Induced Lung Cancer	Mouse	genetic, carcinogensis and histological	400
Holtzman, Jordan L. M.D., Ph.D.	University of Minnesota Department of Pharmacology Therapeutic Section (111T), VA Medical Center Minneapolis, MN 55417	Arterial Benzo[a]pyrene Metabolism in the Accelerated Atherosclerosis in Smokers	None used	--	--

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Investigator	Institution	Title	Species (1)	Nature of test	Number of animals involved
Horohov, David W. , Ph.D. Penn, Arthur, Ph.D.	Louisiana State University Department of Pathobiological Sciences School of Veterinary Medicine S. Stadium Drive Baton Rouge, LA 70820	Does Environmental Tobacco Smoke Provoke a Th2 Immune Response?	Mouse	Immunology, biochemical and pharmacological	1,800
Ko, Jiunn-Liang Ph.D.	Chung-Shan Medical University 110,Sec. 1 Chien-Kuo N. Road Taichung, Taiwan 40203 China	Expression of mdm2 Splicing Variants During Lung Tumorigenesis	None used	--	--
Kumar, Subodh Ph.D.	State University of New York at Buffalo 1300 Elmwood Avenue Buffalo, NY 14222	Mutagenesis of thia-PAHs with Peripheral Thiophene Ring	Rat	mutagenesis, metabolism	150
Lal, Ratneshwar Ph.D.	University of California, Santa Barbara NRII Neuroscience Research Institute Santa Barbara, CA 93106	Smoking-Induced Reactive Oxygen Species Modulate Gap Junction Hemichannel Activity	None used	--	--
Last, Jerold, Ph.D.	University of California, Davis IM: Pulmonary Care Medicine Toxic Substances Program Davis, CA 95616-8723	Mechanisms of Interactions of Air Pollutants & Airway Remodeling in Asthma	Mouse	biochemical and histological	200/year
Lee, Marietta Y.W.T. Ph.D.	New York Medical College Department of Biochemistry and Molecular Biology Basic Science Building, Room 120 Valhalla, NY 10595	The Role of DNA Polymerase Delta in Cancer	None used	--	--
Lehrer, Samuel B. Ph.D. Reese, Gerald, PhD.	Tulane University Health Sciences Center Department of Medicine Section of Clinical Immunology, Asthma & Rheumatology 1700 Perdido Street, Room 321 (SL-57) New Orleans, LA 70112	A Mouse Model For Evaluation of Protein Allergenicity	Mouse	immunology	240
Levin, Edward D. Ph.D. Rezvani, Amir H., Ph.D. (co-investigator) Tizabi, Yousef, Ph.D. (consultant)	Duke University Medical School Department of Psychiatry and Behavioral Sciences 341 Bell Building, Box 3412 Durham, NC 27710	Nicotine-NMDA Interactions and Cognitive Function	Rat	behavioral, biochemical, pharmacological and histological	1,000/year
Lin, Pinpin Ph.D.	Chung-Shan Medical and Dental College Department of Toxicology 110 Sec 1 Chien-Kuo N. Road Taichung, Taiwan 40203 China	Investigating the Role of Aryl Hydrocarbon Receptor in the Occurrence of Lung Cancer	None used	--	--
Lust, W. David, Ph.D. Taylor, Christopher L. Selman, Warren R.	Case Western Reserve University Department of Neurological Surgery 10900 Euclid Avenue Cleveland, OH 44106-4939	Fetal Hypoxia and Nicotine Exposure in Neonatal Dysfunction	Rat	histological, biochemical pharmacological	160
Madhukar, Burra V.; Ph.D.	Michigan State University B-240 Life Science Bldg. E. Lansing, MI 48824	Signal Transduction Pathways in Epigenetic Carcinogenesis	Rat and Mouse	genetic, biochemical	rats 205, mice 164
Matsumoto, Izuru M.D., Ph.D. Niwa, S., M.D., Ph.D. Wilce, P., Ph.D. Dodd, P., Ph.D.	Fukushima Medical University Department of Neuropsychiatry 1-Hikarigaoka Fukushima Fukushima 960-1295 Japan	Receptor Gene Expression In The Human Brain: Adaptive Changes Associated With Tobacco And Alcohol Exposure	None used	--	--
Modiano, Jaime F., VMD, Ph.D.	The Donald Monk Cancer Research Foundation Center for Cancer Causation and Prevention 1600 Pierce Street Denver, CO 80214	Immunosuppressive Effects of Tobacco-Derived Compounds: Molecular Pathology and Drug Discovery	None used	--	--
Moschandreas, Demetrios J., Ph.D. Sofuoglu, Salt C.	Total Exposure Technologies, Inc. 2720 Simpson Street Evanston, IL 60621	The Link between Symptoms of Office Building Occupants and In-office Air Pollution: The Indoor Air Quality Index	None used	--	--
Nadziejko, Christine, Ph.D. Lung, Chi Chen, Ph.D. Gunnison, Albert, Ph.D.	New York University School of Medicine Department of Environmental Medicine 57 Old Forge Road Tuxedo, NY 10987	Effects of Cigarette Smoke on Nitric Oxide Synthase	Mouse	biochemical	275
Neurath, Golz, Ph.D.	University of Hamburg Medical School Department of Toxicology Vogt-Kolln-Str.30 22527 Hamburg Germany	Tumour Promotion by Cigarette Smoke Condensate: Mechanisms and Prevention	None used	--	--

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Investigator	Institution	Title	Species (1)	Nature of test	Number of animals involved
O'Donnell, Martha E., Ph.D.	University of California, Davis One Shields Avenue Davis, California 95616	Brain Microvessel Cation-Chloride Cotransport in Cerebral Ischemia	Rat	biochemical, pharmacological and histological	150/year
Phipps, Richard P., Ph.D. Cancer Center/Microbiology and Immunology	University of Rochester School of Medicine and Dentistry Box 704, Rm# I-3155; 601 Elmwood Avn. Rochester, NY 14627	Smoking Related Toxicants: Induction of Cyclooxygenase-2 and PGE 2 and Enhancement of Pulmonary Injury and Asthma	Mouse	biochemical	50
Poon, Randy Y. C., Ph.D.	Hong Kong University of Science and Technology Department of Biochemistry Clear Water Bay Kowloon, Hong Kong	Regulation of the G2/M Cell Cycle DNA Damage Checkpoint in Lung Cancer Cells	None used	--	--
Puga, Alvaro, Ph.D.	University of Cincinnati College of Medicine PO BOX 670056 123 e. Shields Street Cincinnati, Ohio 45267-0056	Molecular Markers of Benzo[a]pyrene-Induced Atherosclerosis	Mouse	genetic, biochemical	80/year
Repine, John E., M.D.	Webb-Waring Institute 4200 East Ninth Avenue, Box C321 Denver, CO 80262	Relative Glutathione Deficiency and Inflammation in Human COPD	None used	--	--
Robinson, Risa J., Ph.D.	Rochester Institute of Technology 78 Lomb Memorial Drive Rochester, NY 14623	Carcinogen Specific Dosimetry Model for Passive Smokers	None used	--	--
Rose, Jed E., Ph.D.	Duke University Medical Center Department of Psychiatry 2200 W. Main Street Suite B-150 Durham, NC 27705	Evaluation of the Nicotine Bolus Theory of Tobacco Dependence	None used	--	--
Rosecrans, John A., Ph.D. James, John R., Ph.D. Robinson, Susan, Ph.D. Rowell, Peter, Ph.D.	Virginia Commonwealth University Department of Pharmacology and Toxicology P. O. Box 980613 Richmond, VA 23298-0613	The Neuromolecular and Neurochemical Basis of Nicotine's Variable Effects on Behavior: Understanding Nicotine's Role in Smoking	Rat	behavioral, biochemical, pharmacological and histological	192
Sabban, Esther L., Ph.D.	New York Medical College Department of Biochemistry and Molecular Biology Grasslands Reservation Valhalla, NY 10595	Mechanism of Nicotine Signaling to Catecholamine Related Gene Expression: Involvement of Alpha 7 Receptor Subtypes	None used	--	--
Sarkar, Mohamadi A., Ph.D.	Virginia Commonwealth University Dept. of Pharmaceutics 410 N 12th Street, Rm# 356C Richmond, VA 23298	Characterization of the Anti-estrogenic Effects of Cigarette Smoke in Female Reproductive Organ Cancer	None used	--	--
Schippert, Egbert, Ph.D.	Institute for Environmentally Compatible Process Technology Treatment of Air, Solvent Recovery Department Im Stadtwald 47 Saarbrucken, Germany D-66123	Electrically Regenerated Activated Carbon Fiber Cloths for Exposure Reduction of Tobacco Smoke	None used	--	--
Schmitz, Oliver J., Ph.D.	University of Wuppertal, Germany Analytical Chemistry BUGH Wuppertal ISG/Analytical Chemistry, Gauss-Str.-20 42119 Wuppertal Germany	Development of a New Genotoxicity Test: Analysis of Fluorescently Labeled DNA Adducts by Micellar Electrokinetic Chromatography and Laser-Induced Fluorescence Detection	None used	--	--
Schneider, Robert J., Ph.D.	New York University School of Medicine Department of Microbiology 550 First Avenue New York, NY 10016	New Biomarkers for Human Breast Cancer Invasiveness	Mouse	--	--
Sikka, Harish C., Ph.D. Subodh Kumar, Ph.D.	State University of New York at Buffalo Great Lakes Center 1300 Elmwood Avenue Buffalo, NY 14222	Mechanism of Synergistic Interaction of Tobacco Smoke Constituents	None used	--	--
Simon, Sidney A., Ph.D. Nicolelis, Miguel A.L., M.D., Ph.D.	Duke University Medical Center Department of Neurobiology Box 3209 Durham, NC 27710	Sensory Effects of Nicotine	Rat	behavioral, biochemical, electrophysiological, pharmacological and histological	100/year
Slotkin, Theodore A., Ph.D.	Duke University Medical School Department of Pharmacology and Cancer Biology Box 3813 DUMC Durham, NC 27710	Fetal & Adolescent Nicotine Effects on CNS 5HT Systems	Rat	pharmacological, neurological, histological and biochemical	1,760
Stringer, Kathleen A., PharmD	University of Colorado Health Sciences Center School of Pharmacy, C238 4200 East Ninth Avenue Denver, CO 80262	Modulation of Neutrophil Function by Cigarette Smoke Extract	None used	--	--

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Investigator	Institution	Title	Species (1)	Nature of test	Number of animals involved
Sumikawa, Katumi, Ph.D.	University of California, Irvine Department of Neurobiology and Behavior 2205 Bio Sci II Irvine, CA 92697-4550	Identification of Genes Affected by Nicotine Use	Rat	histological,genetic and histochemical	100/year
Talbot, Prudence, Ph.D.	University of California, Riverside Department of Cell Biology & Neuroscience Riverside, CA 92521	Identification of Anti-Angiogenic Components in Cigarette Smoke	Hamster	physiological	100/year
Thiraut, Norbert, Dr. med.	University Erlangen-Nurnberg, Germany Psychiatrische Klinik der FAU Schwabachanlage 6 91054 Erlangen Germany	The Effects of the NMDA-Antagonist Memantine on Smoking Behavior and on Discrimination and Hedonic Evaluation of R(+)- and S(-)-Nicotine	None used	--	--
Tithof, Patricia K., DVM, Ph.D.	The University of Tennessee Department of Comparative Medicine 2407 River Drive Knoxville, TN 37796-4500	The Role of Arachidonic Acid in Endothelial Cell Apoptosis Induced by Tobacco Components	None used	--	--
Toborek, Michael, M.D., Ph.D.	University of Kentucky Department of Surgery/Neurosurgery 800 Rose Street Lexington, KY 40536	Antiapoptatic Neuroprotection by Nicotine in Spinal Cord Injury	Mouse	biochemical, pharmacological and histological	104/year
Vishwanatha, Jamboor K., Ph.D.	University of Nebraska Medical Center	Nicotine Modulation of Nitric Oxide-mediated Apoptosis	None used	--	--
Vizi, E. Sylvester, M.D., Ph.D. Sperlagh, Beata Kovacs, Krisztina Lendvai, Balazs Mike, Arpad	Hungarian Academy of Sciences Institute of Experimental Medicine Szigony u.43 H-1083 Budapest, Hungary	Nicotine-Induced Plastic Changes in the Brain Revealed by High Resolution Imaging: From Subcellular Actions to Functional Mapping	Rat	histological and pharmacological	200
Vogel, Wolfgang, Ph.D.	Thomas Jefferson University Department of Biochemistry and Molecular Pharmacology 1020 Locust Street Jeff Alumni Hall 457 Philadelphia, PA 19107	Determinants of the Voluntary Nicotine Consumption by Rats	Rat	behavioral	826
Walker, James C., Ph.D. Kendal-Reed, Martin, Ph.D.	Florida State University B-340 NHMFL - Innovation Park 1800 East Dirac Drive Tallahassee, FL 32306-2741	Human Sensitivity to ETS: Thresholds, Neural Mediation and Individual Differences	None used	--	--
Waxler, Anthony S., Ph.D.	Regents of University of California Mechanical and Aeronautical Engineering Office of Research One Shields Avenue 410 Mrak Hall Davis, CA 95616	Pulmonary Deposition of Ultrafine Particles	None used	--	--
Wong, Dean F., M.D., Ph.D.	Johns Hopkins School of Medicine Environmental Health Sciences 601 N. Caroline Street - JHOC 3245 Baltimore, MD 21287-807	In Vivo Imaging of Nicotinic and Dopaminergic Neurotransmission in Cigarette Smokers	None used	--	--
Zelikoff, Judith T., Ph.D. Cohen, M. D. Chen, L. C. Nadziejko, C.	New York University School of Medicine Department of Environmental Medicine 57 Old Forge Road Tuxedo, NY 10987	Environmental Tobacco Smoke-Associated Cadmium and Enhanced Childhood Lung Infections	Rat	biochemical, pharmacology	272

1. These animal models are used in standard protocols.
All animal model use and care has been approved by each institution involved and are used in accordance with NIH guidelines.
2. Number is approximate. Only the minimum number of healthy animals will be used.

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